

U.S. Serial No. 09/452,638 - Pending Claims

1. A chimeric live, infectious, attenuated virus, comprising a yellow fever virus in which the nucleotide sequences encoding the pre-membrane and envelope proteins are replaced with the nucleotide sequences encoding pre-membrane and envelope proteins of a Dengue virus.

(3) 2. The chimeric virus of claim 1, wherein said Dengue virus is selected from the group consisting of Dengue types 1, 2, 3, and 4.

(4) 3. The chimeric virus of claim 2, wherein said nucleotide sequences derived from said Dengue virus are derived from two or more different Dengue strains

(7) 4. The chimeric virus of claim 1, wherein said nucleotide sequences encoding said pre-membrane and envelope proteins of said Dengue virus comprise a substitution or deletion in the R-X-R/K-R sequence at the cleavage site of the pre-membrane protein that prevents cleavage of the pre-membrane protein to produce the membrane protein.

(6) 5. The chimeric virus of claim 1, wherein said chimeric virus comprises a signal sequence at the amino terminus of said pre-membrane protein, and said signal sequence is that of yellow fever virus.

(33) 6. The chimeric virus of claim 1, wherein said Dengue virus is a Dengue-1 virus.

7. The chimeric virus of claim 1, wherein said Dengue virus is a Dengue-2 virus.

8. The chimeric virus of claim 1, wherein said Dengue virus is a Dengue-3 virus.

9. The chimeric virus of claim 1, wherein said Dengue virus is a Dengue-4 virus.